



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A2
UNIQUE ID NUMBER: 1GE016
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{eo}): 28.0
RATED THRUST (F_{eo}) (kN): 233.4

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{eo} (g/kN) or SN	17.6	69.1	45.8	7.6
AS % OF ORIGINAL LIMIT	89.6	58.6	47.7	40.6
AS % OF CAEP/2 LIMIT (NO _x)			59.7	
AS % OF CAEP/4 LIMIT (NO _x)			71.8	
AS % OF CAEP/6 LIMIT (NO _x)			81.6	
AS % OF CAEP/8 LIMIT (NO _x)			96.8	

DATA STATUS

- PRE-REGULATION
- CERTIFICATION
x REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
- DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{eo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.117	0.08	0.57	27.93	6.5
CLIMB OUT	85	2.2	1.745	0.10	0.55	20.69	4.0
APPROACH	30	4.0	0.580	0.23	2.94	9.44	2.3
IDLE	7	26.0	0.189	10.48	46.01	3.95	3.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			753	3152	14152	9728	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F _{eo} (g/kN) or AVERAGE SN (MAX)				13.5	60.6	41.7	6.5
SIGMA (D _p /F _{eo} in g/kN, or SN)				1.3	3.1	0.4	1.0
RANGE (D _p /F _{eo} in g/kN, or SN)				12.42-14.6	57.97-63.34	41.31-42.14	5.4-7.3

ACCESSORY LOADS

POWER EXTRACTION 0 (kW)
STAGE BLEED 0 (% CORE FLOW)

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-97.8
TEMPERATURE (K)	287-296
ABS HUMIDITY (kg/kg)	0.0084-0.014

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
TEST ORGANIZATION: CF6 Eval Engineering
TEST LOCATION: Site IIIC, PTO, Peebles, Ohio
TEST DATES: 29/05/1985-03/06/1985

REMARKS

1. Ref GE Report R85AEB486.
2. Engine S/N's 690105 and 690005/2.

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation,
'- ' if information is not available)